

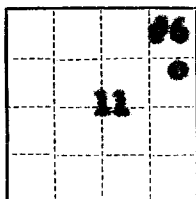
Well log by B max Petroleum to CKZ, Inc.  
May 1, 1967

Scout Report sent out  
Noted in the NID File  
Location map pinned  
Approval or Disapproval Letter  
Date Completed, P. & A, or  
operations suspended  
Pin changed on location map  
Affidavit and Record of A & P  
Water Shut-Off Test  
Gas-Oil Ratio Test  
Well Log Filed

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5/9/56 shut-down

<b>FILE NO. 10-15</b>	
Entered in NID File	Checked by Chief
Entered in NID File	Copy NID to Field Office
Location Map Pinned	Approval Letter
Card Indexed	Disapproval Letter
IWR for State or Fee Land	
COMPLETED BY: <u>May 2, 1956</u>	
Date Well Completed	Location Inspected
GW <u>✓</u> VAW <u>✓</u> AD <u>✓</u>	Bad released
GW <u>✓</u> OS <u>✓</u> PA <u>✓</u>	State of Fee Land
LOGS FILED	
Drill Log <u>✓</u>	
Electric Logs (No. <u>2</u> )	
L <u>✓</u> I <u>✓</u> E-I <u>✓</u> GR <u>✓</u> GR-N <u>✓</u> Micro <u>✓</u>	
Lt <u>✓</u> M-L <u>✓</u> Sonic <u>✓</u> Others <u>✓</u>	



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Salt Lake City**  
Lease No. **SL 064806**  
Unit **Box "X"**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**April 12**, 19**56**

Well No. **6** is located **1920** ft. from **[N]** line and **660** ft. from **[E]** line of sec. **11**  
**C SE 1/4 NE 1/4 Sec. 11** (1/4 Sec. and Sec. No.) **17S** (Twp.) **25E** (Range) **S.L.M.** (Meridian)  
**Box "X"** (Field) **Grand** (County or Subdivision) **Utah** (State or Territory)

The elevation of the derrick floor above sea level is **5321** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

To drill a well with rotary tools at the above designated location to sufficiently test the Entrada formation. Approximately 150' of 8-5/8" O.D. surface casing will be set and cemented to the surface, and pressure tested. A 7-7/8" hole will be drilled to R.T.D. and, in the event that subsequent testing warrants setting a production string, 5-1/2" O.D. casing will be set.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The American Metal Company, Limited**  
Address **412 Shell Building**  
**1845 Sherman St.**  
**Denver 3, Colorado**  
By **A. J. Carter, Jr.**  
Title **Supervising Petroleum Engineer**

THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING  
1845 SHERMAN STREET  
DENVER 3, COLORADO  
TELEPHONE CHERRY 4-4423


April 16, 1956

MAIN OFFICE  
61 BROADWAY  
NEW YORK 6, N. Y.

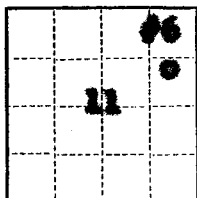
Mr. Herbert F. Smart  
Oil & Gas Conservation Commission  
Room 105 - State Capitol Bldg.  
Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is an approved copy of U.S.G.S.  
Form 9-331a, "Notice of Intention to Drill" for  
the Bar "X" Unit No. 6 in Grand County, Utah.

  
A. J. Carter, Jr. (E.N.)  
Supervising Petroleum Engineer

AJC, Jr./eh  
Encl.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau 42-R358.3.  
Approval expires 12-31-55.

Land Office **Salt Lake City**  
Lease No. **SL 064806**  
Unit **Bar "X"**

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**April 24**, 19**56**

Well No. **6** is located **1920** ft. from **[N]** line and **640** ft. from **[E]** line of sec. **11**  
**C 34 34 34 Sec. 11** **17S** **23E** **S.L.M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Bar "X"** **Grand** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5321** ft.

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Run 8-5/8" O.D. surface pipe set at 162'. Cemented with 100 sacks. Pressure tested surface pipe at 500 lbs. for 30 minutes and surface pipe held OK.**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The American Metal Company, Limited**  
Address **412 Shell Building**  
**1845 Sherman St.**  
**Denver 3, Colorado**  
By **[Signature]**  
Title **Supervising Petroleum Engineer**

THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING  
1845 SHERMAN STREET  
DENVER 3, COLORADO  
TELEPHONE CHERRY 4-4423

April 30, 1956


MAIN OFFICE  
61 BROADWAY  
NEW YORK 6, N. Y.

Mr. Herbert F. Smart  
Oil & Gas Conservation Commission  
Room 105 - State Capitol Bldg.  
Salt Lake City, Utah

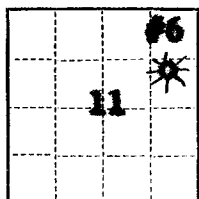
Dear Mr. Smart:

Enclosed is an approved copy of U.S.G.S.  
Form 9-331a, "Subsequent Report of Water Shut-off"  
on the Bar "X" Unit No. 6 in Grand County, Utah.

Yours very truly,

  
A. J. Carter, Jr. (E.M.)  
Supervising Petroleum Engineer

AJC, Jr./eh  
Encl.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Salt Lake City**  
Lease No. **SL 064806**  
Unit **Bar "X"**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 16, 19 56

Well No. **6** is located **1920** ft. from **N** line and **666** ft. from **E** line of sec. **11**

**C SE/4 NE/4 Sec. 11** **17S** **25E** **S.L.M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Bar "X"** **Grand** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Upon verbal approval of Mr. D. F. Russell, District Engineer in the Salt Lake City office, permission was given to dually complete this well by setting production packer in the 5-1/2" casing at 3175' with an Otis side door chokes. This well will be dually completed with the Morrison formation producing through the tubing and the Dakota formation producing through the annular space.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The American Metal Company, Limited**

Address **412 Shell Building**  
**1845 Sherman St.**  
**Denver 3, Colorado**

**W. A. Carter, Jr.** (E.N.)  
Title **Supervising Petroleum Engineer**

FEDERAL LAND

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
6. The District Engineer, U. F. Russell, 306 Federal Bldg., Salt Lake City 1, Utah  
4-2552, 2d., shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.

5LC-064806

FOR 10-1-12  
U. F. Russell

THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING  
1845 SHERMAN STREET  
DENVER 3, COLORADO  
TELEPHONE CHERRY 4-4423

May 25, 1956

MAIN OFFICE  
61 BROADWAY  
NEW YORK 6, N. Y.

Mr. Herbert F. Smart  
Oil & Gas Conservation Commission  
Room 105 - State Capitol Bldg.  
Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is an approved copy of U.S.G.S.  
Form 9-331a, "Notice of Intention to Change Plans",  
on the Bar "X" Unit No. 6 in Grand County, Utah.

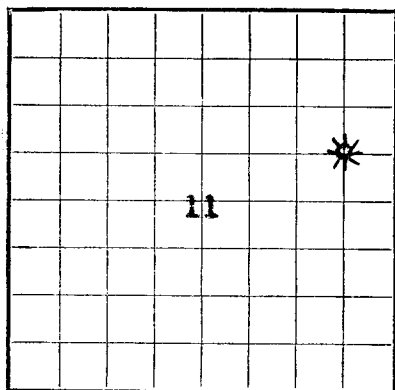
Yours very truly,

A. J. Carter, Jr.  
A. J. Carter, Jr. (E.H.)  
Supervising Petroleum Engineer

AJC, Jr./eh  
Encl.

Noted  
C.A.K.  
5/28/56

U. S. LAND OFFICE Salt Lake City  
SERIAL NUMBER 064807  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company The American Metal Co., Ltd. Address 1845 Sherman St.  
Lessor or Tract Bar 'X' Field Bar 'X' State Utah  
Well No. 6 Sec. 11 T. 17S R. 25E Meridian \_\_\_\_\_ County Grand  
Location 1980 ft. S. of N Line and 658 ft. W. of E Line of Section 11 Elevation 5321'  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed \_\_\_\_\_

Date July 11, 1956 Title Supervising Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling April 14, 1956 Finished drilling May 2, 1956

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3078 to 3128 (G) No. 4, from 3246 to 3276 (G)  
No. 2, from 3145 to 3165 (G) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from 3183 to 3193 (G) No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of size	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8" OD	24	8 rd	CF&I	149	Howco	-	-	-	Surf. csg.
5-1/2" OD	14	8 rd	CF&I	3325	Howco	-	3078	3128	
							3145	3165	
							3183	3193	
							3246	3276	Prod. String
2-3/8" OD	47	8 rd	CF&I	3174	-	-	Open below		Tubing

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8" OD	149	100 sx	Howco	-	-
5-1/2" OD	3325	200 sx	Howco	-	-

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

8-5/8" OD	149	100 sx	Howco	-	-
1 1/2" OD	3325	200 sx	Howco	-	-

FOLD

### PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

### SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

### TOOLS USED

Rotary tools were used from ..... feet to **3900** feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

### DATES

....., 19..... Put to producing **shut-in** ....., 19.....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours **15,000,000** Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. **950** .....

### EMPLOYEES

**W. H. Pease** ..... **Tool Pusher** ..... **C. H. Baker** ..... Driller

**W. Warnholz** ..... Driller ..... **W. H. Douglass** ..... Driller

### FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2800	2820	20	Shale, blk, limy, little silt, Bent., mica, pyrite 10% (sh 90%).
2820	2870	50	Shale, blk, 50%-80%, Bent 5%, trace mica, trace lime, brn, trace inoc. prisms, trace VF gr sand.
2870	2880	10	Silt & sdy shale, 80%, Blk to dark gray, shale, blk 15%, only slightly limy, Bent 3-5%.
2880	2930	50	Shale, blk, 45%-80%, Silt, dark gray toward base, 40% trace pyrite, mica, and VF gr sdy shale, Bent 5% (trace steel gray bent) trace brn lime.
2930	2960	30	Shale, blk, 60%-80%, Silt, dk gr, blk with trace of glauconite, trace VF gr sand, tan, few loose grains VF gr quartz, few carbon inclusions in sh, Bent 2-3%.
2960	2970	10	Shale blk-80%, Silt, lt gray 15%, Bent 5%
2970	2990	20	Shale blk, 45% sdy shale & sd, dk gr, VF gr tight, faint fluores on cut, 40%, some loose grains of VF gr quartz, rounded, marked increase in Bent 15%.

## FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2990	3030	40	Shale, silt, sdy sh - 100%, Blk to lt gr - Bent 10%-15%, trace pyrite, glauconite & mica.
3030	3050	20	Shale, Blk 80%, Sdy sh 15%, blk-dk gr., Bent 5%, trace glauconite.
3054	3062	8	Circulated sample - Sand, lt brn, VF-F gr, sub round to sub angular, considerable loose grains, mostly tight few clusters with fair por. - slight odor, fair fluores on carbon tet cut - 50% -
			Shale, blk 50%.
3062	3065	3	Sand, as above, w/small amt. of coal.
3065	3075	10	Sample predominantly coal - Sand as above 10%-15%.
3075	3100	25	Sd & shale, Shale, blk, 50-55%, Sd, buff, white, sub angular to angular, appears tight, F-M gr, 15%, Bent 20%, coal 10%.
3100	3140	40	Sh, blk 55%, Coal 20-25%, Bent 20%, few clusters of white sand as above with few loose grains of quartz.
3140	3150	10	Sh, dk gray, blk, 70%, Coal 15%, Bent-10%
3155			Circulated sample, Sh, dk gray, 60%, Sd, buff-white, sub angular to sub rd, some clay filled & tight, in part fair to good por, much angular chert, F-M gr, Bent 15%.
3155	3165	10	Sh, 60%, sand as above 20%, Bent 15%.
3167			Circulated sample, predom. sh, Bent 10%, Sd as above with considerable rounded quartz grains. No fluores.
3167	3170	3	As above.
3170	3185	15	Predominately blk shale, w/trace of gray green shale, Bent 10%.
3185	3195	10	Shale blk 65%, 5% gray green sh, Bent 15%, sd, white, fine grain, sub angular, white clay cement in part.
3195	3205	10	Shale blk 50%, blue green sh 20%, lt gray, tan sh 15%, Bent 10%, little sd as above.
3205	3220	15	Sd, greenish white, quartzitic in part, many VF gr loose quartz grains, tightly cemented, looks very tight, considerable angular chert, 40%. Approx 10% sd, white-buff F-M gr, sub round, tightly cemented w/white clay, blk sh 35%, green sh 15%.
3220	3247	27	Sh, blk 55%, <u>First Red sh</u> (3220-25) green 25%, Bent 15%, sd as above 5%.
3252			Circulated, Coal 40%, sh-green 15%, blk 35%, Bent 10%, trace red-brn sh, approx 1% VF gr sd in sample cemented in part with black gilsonite

3220	3247	27	whites-buff F-H gr, sub round, tightly cemented w/white clay, blk sh 35%, green sh 15%.
3252	Circulated, Coal 40%		sh, blk 55%, <u>First Red sh</u> (3220-25) green 25%, Bent 15%, sd as above 5%.
3257			sh-green 15%, blk 35%, Bent 10%, trace red-brn sh, approx 1% VF gr sd in sample cemented in part with black gilsonite type material.
3255			Circulated - same.
			Circulated - same w/coal/25%

# HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

## FORMATION TOPS

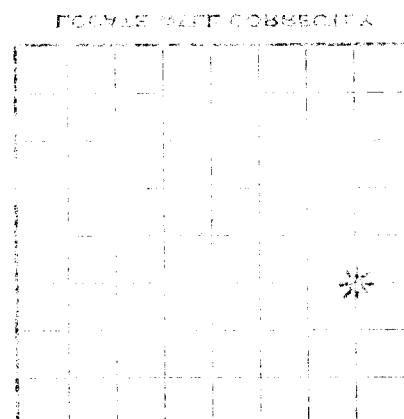
(Schlumberger Electric Log - Depth K.S.)

	(Km)	Surface
Mancos Sh	(Kd)	3075'
Top Dakota	(Jm)	3166'
Top Morrison	(Je)	3272'
Top Salt Wash		3536'
Top Entrada		

This well is ~~completely~~ completed in the Morrison and Dakota

formations with a Halliburton Type C production packer set at 3174'. The Morrison produces out of the tubing and the Dakota

produces out of the annular space between the 5-1/2" casing and the 2-3/8" O.D. tubing.



## LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

PRINTED AT BUREAU OF GEOLOGICAL SURVEY  
WASHINGTON, D. C.

# FORMATION RECORD - Continued

From	To	Total Feet	Formation
3265	3270	5	Shale blk 40% - Green & white and red brn sh 25%, Coal 20%, Bent 10%, sdy sh & trace of sd, white VF gr.
3270	3280	10	Shale green & lt reddish brn 25%, blk sh 50%, Bent 15%, Coal 5%, trace sand clusters, quartz, F gr white.
3280	3330	50	Shale green & reddish brn 55%, blk 40%, very little red, trace lavender, Bent 5%, little loose quartz grains & trace of coal.
3330	3380	50	Shale blk 45%, V-colored reds becoming more abundant, 45%, Coal 5-10%, Bent 5%, sand & find quartz grains 3-5%.
3380			Circulated, Shale as above, very little sand, some quartzitic tight w/slight fluores on cut.
3381	3396	15	<u>Core #1:</u> Cut 15', recovered 15' - 4/24/56. 2-1/2' sand, buff-white, quartzitic, very hard & tight, no odor; 12-1/2' shale - red, hard, tough, streaks of red & green mottled.
3396	3440	44	Shale, blk 35%, V-colored, green, red, lavender, white 50%, Bent 5%, sand, coal & fine quartz grains 10%.
3440	3490	50	Shale, Blk 40%, V-colored 55%, trace sdy sh, Bent 5%, trace coal, sand & quartz grns.
3490	3540	50	Shale & sdy shale, V-colored 55%, Blk, 40%, trace coal & fine quartz grains.
3540	3570	30	Shale, V-colored, red, brn, lavender, green, 60%, Blk 40%, little sdy shale (red), trace bent & coal.
3570	3610	40	Shale, as above w/few clusters fg & vf gr sand and f-m gr clean quartz & trace of coal.
3610	3635	25	Shale, V-colored 70%, Blk 30%.
3635	3642	7	Circulated at 3642, Sd & Sh, sd white, buff, F-M gr. sub ang. sub rd, mostly tight appearing with little showing fair por. 10%, Sh, V-colored 50%, Blk 40%.
3642	3700	58	Shale, V-colored 70%, Blk 30%.
3700	3770	70	Shale, V-colored 70%, Blk 30%.
3770	3810	40	Sdy shale & sh, V-colored 70%, Blk 30% trace coal & bent.
3810	3845	35	Shale V-colored, 70%, Blk 30%.
3845			Circulated, sample mostly shale as above, sand, VF gr tan, buff, sub round, no fluores, 5%.
3850	2900	50	<u>Core #2:</u> Cut 50' - recovered 41' - 5/1/56. 41' sd - lt tan, lt brn - F-mg, sub round - round, thin streaks of shale top 5'-tight at top becoming more porous toward base, no fluores.

**THE AMERICAN METAL COMPANY, LIMITED**

412 SHELL BUILDING  
1845 SHERMAN STREET  
DENVER 3, COLORADO  
TELEPHONE CHERRY 4-4423

**July 12, 1956**

MAIN OFFICE  
61 BROADWAY  
NEW YORK 6, N. Y.

*Noted  
CCH  
7-14-56*

**Mr. Herbert F. Smart  
Oil & Gas Conservation Commission  
Room 105 - State Capitol Bldg.  
Salt Lake City, Utah**

**Dear Mr. Smart:**

Enclosed is a copy of U.S.G.S. Form 9-330,  
"Log of Gas Well", for our Bar "X" Unit #6 in Grand  
County, Utah, together with Electrical Log and  
MicroLogging report on this well.

**Yours very truly,**

  
\_\_\_\_\_  
**A. J. Carter, Jr. (H)  
Supervising Petroleum Engineer**

**AJC, Jr./eh  
Encls.**

**TERRA RESOURCES, INC.**

**March, 1970**

**Division of Oil and Gas Conservation**

**1588 West North Temple**

**Salt Lake City, Utah 84116**

**Re: Initial Report  
Terra Resources, Inc.**

Effective March 1, 1970, a reorganization of CRA, Inc., a Kansas corporation, occurred. Effective that date the Production and Exploration Divisions of CRA, Inc. were incorporated with the name Terra Resources, Inc. in the State of Delaware.

Attached hereto is Terra Resources, Inc.'s initial report. It covers operation of the leases indicated for the period beginning March 1, 1970.

Please address all future correspondence related to these leases as follows:

Terra Resources, Inc.  
Taxation Department  
Fourth National Bank Building  
Tulsa, Oklahoma 74119

Very truly yours,

  
M. E. Krause, Controller

MEK:dm  
Attachment

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
93772016	BAR X #16	06	02	<u>18</u>	12/85	<u>0800</u>
92002012	BAR X #4 17S. 24E. 18	06	12	<u>1</u>	11/85	<u>T.D.</u>
92003019	BAR X #6 CS 17S. 25E. 11	06	12	<u>13</u>	11/85	<u>1100</u>
92005011	CRITTENDON #1 CASING 17S. 25 12	06	12	<u>13</u>	11/85	<u>1000</u>
92006018	CRITTENDON #1 TUBING " "	06	12	<u>13</u>	11/85	<u>0900</u>
92013014	BAR X #5 17S. 24E. 17	06	12	<u>6</u>	11/85	<u>1000</u>
92292010	BAR X #12 17S. 24E. 17	06	12	<u>6</u>	11/85	<u>1100</u>
92293017	BAR X #13 17S. 24E. 7	06	12	<u>13</u>	11/85	<u>0800</u>
93549015	BAR X #9	06	12	<u>6</u>	11/85	<u>0900</u>
92105012	BAR X #8 17S. 25E. 11	06	12	<u>3</u>	12/85	<u>0900</u>

COMPANY: TERRA RESOURCES INC UT ACCOUNT # 10960 SUSPENSE DATE: \_\_\_\_\_

WELL NAME: BAR X UNIT #6

TELEPHONE CONTACT DOCUMENTATION

API #: 4301915025

CONTACT NAME: LINDA MOORE

SEC, TWP, RNG: 11 T17S R25E

CONTACT TELEPHONE NO.: 307-577-3303

SUBJECT: CHANGING PZ FROM COMMINGLE DK-MR TO DKTA PRODUCTION  
1984 THROUGH THE PRESENT WITH MRSN SI AND SHOWING  
O'S FROM JAN 1984 thru THE PRESENT.  
TAD WILL SHOW BOTH ZONES.

(Use attachments if necessary)

RESULTS: MRSN SI SINCE 1982

PER LINDA THE PRODUCTION SHE HAS BEEN REPORTING WAS  
FROM DKTA. SHE IS AWARE THE NEW TAD WILL SHOW  
BOTH ZONES.

(Use attachments if necessary)

CONTACTED BY: VC

DATE: 10-29-87

**LONE MOUNTAIN PRODUCTION COMPANY**

P.O. BOX 3394  
408 PETROLEUM BUILDING  
BILLINGS, MONTANA 59103-3394  
(406) 245-5077

March 8, 1989

**RECEIVED**  
MAR 10 1989

DIVISION OF OIL, GAS & MINING  
STATE OF UTAH  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180

DIVISION OF  
OIL, GAS & MINING

Re: Bar-X Unit  
GRAND COUNTY, UTAH and  
MESA COUNTY, COLORADO

Gentlemen:

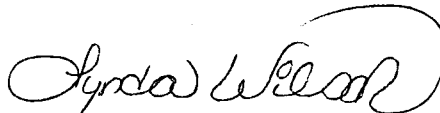
Following is a list of wells and well locations which make up the Utah portion of the Bar-X Unit. Change of operator for this unit was effective January 1, 1989.

019-15022	Crittenden No. 1	SE SE Section 12:	T17S-R25E, Grand Co., UT
019-15022	Bar-X Unit No. 3	NE SW Section 12:	T17S-R25E, Grand Co., UT
019-15023	Bar-X Unit No. 4	NE NE Section 18:	T17S-R26E, Grand Co., UT
019-15024	Bar-X Unit No. 5	SE NE Section 17:	T17S-R26E, Grand Co., UT
019-15025	Bar-X Unit No. 6	SE NE Section 11:	T17S-R25E, Grand Co., UT
019-15026	Bar-X Unit No. 7	NW NE Section 7:	T17S-R26E, Grand Co., UT
019-30494	Bar-X Unit NO. 8	NE NW Section 11:	T17S-R25E, Grand Co., UT
019-30597	Bar-X Unit No. 12	NW SE Section 8:	T17S-R26E, Grand Co., UT
019-30598	Bar-X Unit No. 13	NW SW Section 7:	T17S-R26E, Grand Co., UT

Should you require any further information, please feel free to call.

Very truly yours,

Lone Mountain Production Company



Lynda Wilson

/lw

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985  
LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug a well or to alter a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED  
OCT 26 1989

OIL WELL ☐ GAS WELL ☒ OTHER

NAME OF OPERATOR

Lone Mountain Production Company

ADDRESS OF OPERATOR

408 Petroleum Building, P.O. Box 3394, Billings, MT 59103

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

1980' FNL, 658' FEL

PERMIT NO.

43-019-15025

ELEVATIONS (Show whether DF, RT, OR, etc.)

5321 DF

UNIT AGREEMENT NAME

Bar-X

FARM OR LEASE NAME

Federal

WELL NO.

No. 6

FIELD AND POOL, OR WILDCAT

Bar-X

SEC. T. S. M. OR BLM. AND  
SUSJECT OF AREA

SE 1/4 Sec. 11-T17S-R25E

COUNTY OR PARISH

Grand

STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Commingle Production

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recore Completion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and cased well bent to this work.)

This well has been producing dual completed from the Morrison and Dakota since 1956. Both zones have been produced into the same pipeline and should have similar pressures. Lone Mountain is installing a lower pressure line and hereby requests approval to commingle the Dakota and Morrison. Commingling will allow higher gas velocities up the tubing for lifting fluids, thereby eliminating the need to "blow" the well as often. Commingling orders are currently in effect on lands adjacent to the Bar-X Unit, as well as other Bar-X Unit wells.

OIL AND GAS	
DRN	RJF
1/JRB ✓	GLH
DTS	SLS
2-TAS	
3-	MICROFILM ✓
4-	FILE ✓

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE Petroleum Engineer

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action  
is required before commencing  
operations.

TITLE

\*See Instructions on Reverse Side

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11-1-89  
BY: John R. Daza

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**LONE MOUNTAIN PRODUCTION COMPANY**

P.O. BOX 3394  
408 PETROLEUM BUILDING  
BILLINGS, MONTANA 59103-3394  
(406) 245-5077

**RECEIVED**  
OCT 26 1989

DIVISION OF  
OIL, GAS & MINING

October 24, 1989

Division of Oil, Gas & Mining  
State of Utah  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

Gentlemen:

Enclosed are Sundry Notices to commingle the Dakota and Morrison production on the Bar-X Unit Wells No. 6 and Crittenden No. 1.

Commingling will result in improved operating conditions and less waste of gas necessitated by blowing the wells to remove accumulated fluids from the wellbore.

Your expedient approval of these notices will be appreciated. We hope to get a rig and perform the work in mid-November.

If you have any question, please feel free to give me a call.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY

  
James G. Routson

JGR:tlm

Enclosures

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. SLC 06480X <b>6</b>
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 408 Petroleum Bldg., P. O. Box 3394, Billings, Montana 59103		7. UNIT AGREEMENT NAME Bar-X
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FNL, 658' FEL		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-019-15025		9. WELL NO. No. 6
15. ELEVATIONS (Show whether of. RT. OR. etc.) 5321' DF		10. FIELD AND POOL, OR WILDCAT Bar-X
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE NE Sec. 11: T17S-R25E
		12. COUNTY OR PARISH Grand
		13. STATE UT

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	FULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)		COMINGLING	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

On December 9, 1989, this well was comingled (the Dakota and Morrison formations).

A Sundry Notice of Intent to comingle was filed with the State of Utah on October 24, 1989 and was approved &amp; accepted by the State on November 1, 1989 (copy attached).

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

February 14, 1992

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRI  
(Other instruction on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0115  
Expires August 31, 1985  
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug a well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED  
OCT 26 1989

SLC 0648076  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Bar-X

8. FARM OR LEASE NAME

Federal

9. WELL NO.

No. 6

10. FIELD AND POOL, OR WILDCAT

Bar-X

11. SEC., T., R., W., OR BLK. AND  
SUBDIV. OR AREA

SE 1/4 Sec. 11-T17S-R25E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1. OIL ☐ GAS ☒ OTHER

2. NAME OF OPERATOR

Lone Mountain Production Company

3. ADDRESS OF OPERATOR

408 Petroleum Building, P.O. Box 3394, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

1980' FNL, 658' FEL

14. PERMIT NO.

43-019-15-25

15. ELEVATIONS (Show whether DP, RT, OR, etc.)

5321 DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER Casing

FRACURE TREAT

MULTIPLE COMPLETION

ABANDON OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Comingle Production

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACURE TREATMENT

ALTERING Casing

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all starters and cased well bent to this work.)

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COPY

FEB 18 1992

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE Petroleum Engineer

DATE October 24, 1989

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

Federal approval of this action  
is required before commencing  
operations

\*See Instructions on Reverse Side

DATE: 11-1-89

BY: John R. Bay

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

03/05/92

\* \* \* basic well information \* \* \*

menu: option 00

api number: 4301915025  
producing zone: DK-MR  
producing entity: 455 BAR X UNIT/DK-MR B  
well name: BAR X #6  
operator: N7210 LONE MTN PRODUCTION CO  
field: 160 BAR X  
section: 11 township: 17.0 S range: 25.0 E  
qtr-qtr: SENE meridian: S  
cumulative oil prod:  
cumulative gas prod:  
cumulative wtr prod:  
alternative address code:  
enter 'c' if production is confidential:  
enter date confidential expires (yyddmm):

enter 'x' to delete record:

opt: 47 api: 4301915025 zone: DK-MR date(yy mm):      enty:      acct:

03/05/92

\* \* \* basic well information \* \* \*

menu: option 00

api num: 4301915025 prod zone: DK-MR sec twnshp range qr-qr  
entity: 455 ( BAR X UNIT/DK-MR B 11 17.0 S 25.0 E SENE  
well name: BAR X #6  
operator: N7210 ( LONE MTN PRODUCTION CO meridian: S  
field: 160 ( BAR X  
confidential flag: confidential expires: alt addr flag:  
\* \* \* application to drill, deepen, or plug back \* \* \*  
lease number: SL-064806 lease type: 1 well type: GW  
surface loc: 1980 FNL 0658 FEL unit name: BAR X  
prod zone loc: 1980 FNL 0658 FEL depth: proposed zone: \_\_\_\_\_  
elevation: 5321' apd date: 560507 auth code: \_\_\_\_\_  
\* \* \* completion report information \* \* \* date recd: \_\_\_\_\_  
spud date: 560414 compl date: 891209 total depth: 3900' \_\_\_\_\_  
producing intervals: 3078-3276'  
bottom hole: 1980 FNL 0658 FEL first prod: \_\_\_\_\_ well status: PGW  
24hr oil: \_\_\_\_\_ 24hr gas: \_\_\_\_\_ 24hr water: \_\_\_\_\_ gas/oil ratio: \_\_\_\_\_  
\* \* \* well comments \* \* \* api gravity: \_\_\_\_\_  
920305 TA'D BOTH DKTA & MRSN PZ:COMMINGLED EFF 12/9/89: \_\_\_\_\_

opt: 48 api: 4301915025 zone: DK-MR date(yy mm):      enty:      acct:      \_

03/05/92                      D E T A I L   W E L L   D A T A                      menu: opt 00  
 api num: 4301915025           prod zone: DKTA                      sec      twnshp      range      qr-qr  
 entity: 455      : BAR X UNIT/DK-MR B                      11      17.0 S      25.0 E      SENE  
 well name: BAR X #6  
 operator: N7210 : LONE MTN PRODUCTION CO                      meridian: S  
 field: 160      : BAR X  
 confidential flag:      confidential expires:                      alt addr flag:  
                     \* \* \* application to drill, deepen, or plug back \* \* \*  
 lease number: SL-064806           lease type: 1                      well type:      GW  
 surface loc: 1980 FNL 0658 FEL      unit name: BAR X  
 prod zone loc: 1980 FNL 0658 FEL      depth:                      proposed zone:  
 elevation: 5321'                      apd date: 560507      auth code:  
                     \* \* \* completion report information \* \* \*                      date recd:  
 spud date: 560414                      compl date: 560502      total depth: 3900'  
 producing intervals: 3078-3193'  
 bottom hole: 1980 FNL 0658 FEL      first prod: 561201      well status: TA  
 24hr oil:                      24hr gas: 15000      24hr water:                      gas/oil ratio:  
                     \* \* well comments:                      api gravity:  
 7871029 ORIG ENTERED AS COMMINGLE DK-MR, CHGD TO DUAL COMPL IN DKTA & MRSN:  
 PROD WAS IN DKTA & MRSN IS SGW:871026 1986 CUM BASE ADJUSTED:890315 CHG OF  
 OPER FR N0960 EFF 1/1/89:920305 COMMINGLED DK-MR EFF 12/9/89 SEE ALSO:  
 opt: 21 api: 4301915025 zone: DKTA      date(yy-mm):                      enty                      acct:

03/05/92                      D E T A I L   W E L L   D A T A                      menu: opt 00  
 api num: 4301915025           prod zone: MRSN                      sec      twnshp      range      qr-qr  
 entity: 455      : BAR X UNIT/DK-MR B                      11      17.0 S      25.0 E      SENE  
 well name: BAR X #6  
 operator: N7210 : LONE MTN PRODUCTION CO                      meridian: S  
 field: 160      : BAR X  
 confidential flag:      confidential expires:                      alt addr flag:  
                     \* \* \* application to drill, deepen, or plug back \* \* \*  
 lease number: SL-064806           lease type: 1                      well type:      GW  
 surface loc: 1980 FNL 0658 FEL      unit name: BAR X  
 prod zone loc: 1980 FNL 0658 FEL      depth:                      proposed zone:  
 elevation: 5321'                      apd date: 560507      auth code:  
                     \* \* \* completion report information \* \* \*                      date recd:  
 spud date: 560414                      compl date: 560502      total depth: 3900'  
 producing intervals: 3183-3276'  
 bottom hole: 1980 FNL 0658 FEL      first prod: 571201      well status: TA  
 24hr oil:                      24hr gas:                      24hr water:                      gas/oil ratio:  
                     \* \* well comments:                      api gravity:  
 ORIG ENTERED AS DK-MR COMMINGLED, SHD HAVE BEEN DUAL COMPL IN DKTA & MRSN:  
 871029 1986 CUM BASE ADJ:880208 1986 CUM BASE ADJ:890315 CHG OF OPER FR N0960  
 EFF 1/1/89:920305 COMMINGLED DK-MR EFF 12/9/89 SEE ALSO:  
 opt: 21 api: 4301915025 zone: MRSN      date(yy-mm):                      enty                      acct: